

## Separator for a Lead Storage Battery

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### Claims

1. A separator made of elastic plastic and suitable for use in a lead storage battery, said separator consisting of sheet material with an inner region and two peripheral regions, and having ribs running in the longitudinal direction on at least one side, the ribs in the inner region being more widely spaced than those in the peripheral region, characterised in that at least the first 3 ribs in the peripheral region that are adjacent to the inner region have a cross-section essentially in the form of a triangle projecting from the level of the sheet material, with the base of the triangle on the sheet material, one side of the triangle facing the inner region and the other side facing the periphery, the side facing the inner region being longer than that facing the periphery.
2. Separator according to Claim 1, characterised in that the side of the triangle facing the inner region is 1.5 to 15 times as long as the side facing the periphery.
3. Separator according to Claim 1 or 2, characterised in that the side facing the inner region encloses an angle of  $5^{\circ}$  to  $40^{\circ}$  with the base.
4. Separator according to one or more of Claims 1 to 3, characterised in that the side facing the inner region encloses an angle of  $75^{\circ}$  to  $115^{\circ}$  with the side facing the periphery.

5. Separator according to one or more of Claims 1 to 4, characterised in that the sheet material has a thickness of 0.05 to 0.35 mm.
6. Separator according to one or more of Claims 1 to 5, characterised in that all the ribs in the peripheral region have the same cross-section.
7. Separator according to one or more of Claims 1 to 6, characterised in that 3 to 30 ribs per cm are located in the peripheral region.
8. Lead storage battery containing a plurality of electrodes arranged parallel to one another, neighbouring electrodes possessing opposite polarities and the electrodes of at least one polarity each being enclosed in a separator in accordance with one or more of Claims 1 to 7 that has been folded into a sheath and joined at the edges of the peripheral regions.